

## Data Validation Checklist Semivolatile Organic Analyses

Project: 35<sup>TH</sup> Avenue Superfund Site  
 Laboratory: TestAmerica – Tampa, FL  
 Method: SW-846 8270C Low-Level (PAH)  
 Matrix: Soil  
 Reviewer: Jane Lindsey  
 Concurrence<sup>1</sup>: Carol Lovett/Martha Meyers-Lee

Project No: 15268508.20000  
 Job ID.: 680-87496-3  
 Associated Samples: Refer to **Attachment A** (Sample Summary)  
 Date(s) Collected: 02/13/2013  
 Date: 03/06/2013  
 Date: 03/29/2013

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
1. Were sample storage and preservation requirements met? If temperature >6°C, then J/UJ-flag results.	✓				
2. Were all COC records signed and integrity seals intact, indicating that COC was maintained for all samples?	✓				
3. Were there any problems noted in laboratory data package concerning condition of samples upon receipt?		✓			
4. Do any soil samples contain more than 50% water? If yes, then results are to be reported on a wet-weight basis.		✓			
5. Were holding times met (≤7 and 14 days from collection to extraction for aqueous and solid samples, respectively; ≤40 days from extraction to analysis)? If not, then J/UJ-flag sample results. If grossly (2x) exceeded, then flag J/R.	✓				
6. Were results for all project-specified target analytes reported?	✓				
7. Were project-specified Reporting Limits achieved for undiluted sample analyses?	✓				
8. Were samples with analyte concentrations exceeding the calibration range of the instrument re-analyzed at a higher dilution? If not, then J-flag sample result.			✓		
9. Was a method blank extracted with each batch (i.e., one per 20 samples, per batch, per matrix and per level)?	✓				
10. Were target analytes detected in the method blank?		✓			
11. Were target analytes detected in equipment/rinsate blanks?		✓		PAHs were not detected during the analysis of rinsate blank 021213-RB-Shovel (680-87747-31).	
12. Are equipment/rinsate blanks associated with every sample? If	✓			According to the QAPP, a rinsate blank is to be collected after each decontamination event, which	

<sup>1</sup> Independent technical reviewer  
 URS Group, Inc.  
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## Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
no, note in DV report.				occurs once per week per the client. A rinsate blank, 021213-RB-Shovel (680-87747-31), was collected during the week of 02/11/12. The rinsate blank was analyzed for PAHs under Test America Job ID 680-87747-2.	
13. Were analytes detected in samples below the blank contamination action level? If yes, U-flag positive sample results <5x associated blank concentration (10x for common blank contaminants – phthalates)			✓	Blank contamination does not exist.	
14. Is a field duplicate associated with this Job?	✓			<ul style="list-style-type: none"> <li>CV0971VV-CSD (680-87496-42) is a field duplicate of CV0971VV-CS (680-87496-41).</li> <li>FM0160C-CSD (680-87496-52) is a field duplicate of FM0160C-CS (680-87496-51).</li> <li>FM0160F-CSD (680-87496-56) is a field duplicate of FM0160F-CS (680-87496-55).</li> </ul>	
15. Was precision deemed acceptable as defined by the project plans?		✓		Refer to <b>Attachment B</b> (Field Duplicate Evaluation)	J
16. Were DFTPP ion abundance criteria (i.e., Table 3 of SW-846 8270C) met? If no, professional judgment may be applied to determine to what extent the data may be utilized.	✓			Alternate tuning criteria were used by the laboratory (i.e., EPA Method 525.2). All ion abundance criteria were met per EPA Method 525.2.	
17. Were samples analyzed within 12 hours of the DFTPP tune? If no, professional judgment may be applied to determine to what extent the data may be utilized.	✓				
18. Were initial and continuing calibration standards analyzed at the proper frequency for each instrument? <ul style="list-style-type: none"> <li>Ensure that a minimum of five standards are used for the initial calibration. If no, use professional judgment to determine the effect on the data and note in the reviewer narrative.</li> <li>An initial calibration is to be associated with each sample analysis.</li> <li>A continuing calibration standard is to be analyzed for every 12 hours of sample analysis per instrument.</li> </ul>	✓			<ul style="list-style-type: none"> <li>Initial Calibration: 02/22/2013, instrument BSMA5973</li> <li>ICV: 02/22/2013 @ 12:48</li> <li>CCV: 02/25/2013 @ 14:59</li> <li>Initial Calibration: 01/07/2013, instrument BSMC5973</li> <li>ICV: 01/07/2013 @ 17:31</li> <li>CCV: 02/21/2013 @ 11:47</li> <li>Initial Calibration: 01/07/2013, instrument BSMD5973</li> <li>ICV: 01/07/2013 @ 13:20</li> <li>CCV 02/21/2013 @ 11:57</li> </ul>	

## Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
19. Were calibration results within laboratory/project specifications? <ul style="list-style-type: none"> <li>ICAL (Criteria: <math>\leq 15</math> mean %RSD with individual CCC %RSD <math>\leq 30</math> (<math>\leq 50\%</math> for poor performers), OR <math>r^2 \geq 0.995</math>, OR <math>r^2 \geq 0.99</math>, and RRF <math>\geq 0.050</math> (<math>\geq 0.010</math> for poor performers)):               <ul style="list-style-type: none"> <li>If %RSD <math>&gt; 15</math> (<math>&gt; 50\%</math> for poor performers), or <math>r &lt; 0.995</math>, or <math>r^2 &lt; 0.995</math>, then J-flag positive results and UJ-flag non-detects</li> <li>If mean RRF <math>&lt; 0.050</math> (<math>&lt; 0.010</math> for poor performers), then J-flag positive results and R-flag non-detects</li> </ul> </li> <li>ICV and CCV (Criteria: <math>\leq 20\% D</math> (<math>\leq 50\%</math> for poor performers) and RF <math>\geq 0.050</math> (<math>\geq 0.010</math> for poor performers)):               <ul style="list-style-type: none"> <li>If %D <math>&gt; 20</math> (<math>&gt; 50\%</math> for poor performers), then J-flag positive results and UJ-flag non-detects</li> <li>If RF <math>&lt; 0.050</math> (<math>&lt; 0.010</math> for poor performers), then UJ-flag non-detected semivolatile target compounds</li> </ul> </li> </ul>		✓		ICV of 02/22/2013 @ 12:48, instrument BSMA5973: 2-Methylnaphthalene @ 22.1%D (Lab: $\leq 35$ , Project $\leq 20$ ). Positive bias is indicated by the CV percent difference; therefore, J flag detected 2-methylnaphthalene results in associated samples <sup>2</sup> .	J
20. Was a LCS prepared for each batch and matrix?	✓				
21. Were LCS recoveries within lab control limits? If no, J-flag positive results when %R > Upper Control Limit (UCL) and J/R-flag results when %R < Lower Control Limit (LCL).	✓				
22. Were LCS/LCSD RPD within lab specifications? If no, J-flag positive results and UJ-flag non-detects			✓	LCS only	
23. Was a MS/MSD pair extracted at the proper frequency (one per 20 samples per batch)?	✓				
24. Is the MS/MSD parent sample a project-specific sample?	✓			<ul style="list-style-type: none"> <li>Prep Batch 134668: 680-87496-28 (CV0971QQ-CS), MS/MSD. Lab sample 680-87496-28 is a project-specific sample (CV0971QQ-CS) that was selected by TestAmerica for the PAH MS and MSD analyses, and the results were reported under Job ID 680-87496-2.</li> <li>Prep Batch 134677: 680-87496-48 (CV0971BBB-CS), MS/MSD.</li> </ul>	
25. Were MS/MSD recoveries within laboratory/project specifications? <i>Only QC results for project samples that are reported under this Job ID are evaluated.</i> <ul style="list-style-type: none"> <li>If the native sample concentration &gt; 4x spiking level, then an evaluation of interference is not possible.</li> </ul>		✓		CV0971BBB-CS (680-87496-48): <ul style="list-style-type: none"> <li>Benzo(b)fluoranthene MS @ 144%R (37-130). Qualification of data is not required, because the MSD %R (111) is within acceptance criteria.</li> <li>Benzo(k)fluoranthene MS @ 131%R (32-130).</li> </ul>	

<sup>2</sup> Associated samples: 680-87496-46, and 52 through 60

## Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
<ul style="list-style-type: none"> <li>If either MS or MSD recovery meets control limits, qualification of data is not warranted.</li> <li>MS and MSD %R&lt;10: J and R Flag positive and ND results, respectively</li> <li>MS and MSD %R &gt;10 and &lt;LCL: J-Flag positive and UJ-flag non-detect results</li> <li>MS and MSD R% &gt;UCL (or 140): J-Flag positive results</li> </ul>				Qualification of data is not required, because the MSD %R (114) is within acceptance criteria. <ul style="list-style-type: none"> <li>Fluoranthene MS @ 149%R (40-130). Qualification of data is not required, because the MSD %R (103) is within acceptance criteria.</li> <li>Pyrene MS @ 137%R (44-130). Qualification of data is not required, because the MSD %R (97) is within acceptance criteria.</li> </ul>	
26. Were laboratory criteria met for precision during the MS/MSD analysis? <i>Only QC results for project samples that are reported under this Job ID are evaluated..</i> <ul style="list-style-type: none"> <li>If the native sample concentration &gt; 4x spiking level, then an evaluation of interference is not possible.</li> <li>If %RPD &gt; UCL, J-flag positive result and UJ-flag non-detect result</li> </ul>	✓				
27. Were surrogate recoveries within lab/project specifications? <ul style="list-style-type: none"> <li>If %R &lt;10, then J-flag positive and R-flag non-detect associated sample results</li> <li>If %R &gt;UCL, then J-flag positive results</li> <li>%R ≥10%, but &lt;LCL, then J-flag positive results and UJ-flag non-detect results</li> <li>If 1 %R &gt;UCL and 1 %R ≥10%, but &lt;LCL, then J-flag positive results and UJ-flag non-detect results</li> </ul>	✓				
28. Were internal standard (IS) results within lab/project specifications? <ul style="list-style-type: none"> <li>If IS area counts are less than 50% of the midpoint calibration standard, then J-flag positive and UJ-flag non-detect associated sample results</li> <li>If IS area counts are greater than 100% of the midpoint calibration standard, then J-flag positive results</li> <li>If extremely low area counts are reported or performance exhibits a major abrupt drop-off, then a severe loss of sensitivity is indicated, J-flag positive and R-flag non-detect results</li> <li>If retention time of sample's internal standard is not within 30 seconds of the associated calibration standard, R-flag associated data.</li> <li>The chromatographic profile for that sample must be</li> </ul>	✓				

**Data Validation Checklist (Continued)**

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
examined to determine if any false positives or negatives exists. For shifts of large magnitude, the reviewer may consider partial or total rejection of the data for that sample fraction. Positive results need not be qualified as R, if mass spectral criteria are met.					
29. Were lab comments included in report?	✓			Refer to <b>Attachment C</b> (Case Narrative)	
<b>Comments:</b> The data validation was conducted in accordance with the <i>Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1</i> (OTIE, October 2012). The data review process was modeled after the <i>USEPA Contract Laboratory Program (CLP) National Functional Guidelines (NFG) for Organic Methods Data Review</i> (EPA, October 1999) and <i>USEPA CLP NFG for Low Concentration Organic Methods Data Review</i> (EPA, June 2001). Sample results have been qualified based on the results of the data review process ( <b>Attachment D</b> ). Criteria for acceptability of data were based upon available site information, analytical method requirements, guidance documents, and professional judgment.					

**DV Flag Definitions:**

- J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- R The sample results are unusable. The analyte may or may not be present in the sample.
- U The analyte was analyzed for, but was not detected above the associated level; blank contamination may exist.
- UJ The analyte was not detected above the limit, and the limit is approximate and may be inaccurate or imprecise.

**ATTACHMENT A**  
**SAMPLE SUMMARY**

## Sample Summary

Client: Oneida Total Integrated Enterprises LLC  
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-87496-3  
SDG: 68087496-3

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-87496-41	CV0971VV-CS	Solid	02/13/13 13:45	02/15/13 09:42
680-87496-42	CV0971VV-CSD	Solid	02/13/13 13:48	02/15/13 09:42
680-87496-43	CV0971WW-CS	Solid	02/13/13 14:07	02/15/13 09:42
680-87496-44	CV0971XX-CS	Solid	02/13/13 14:10	02/15/13 09:42
680-87496-45	CV0971YY-CS	Solid	02/13/13 14:15	02/15/13 09:42
680-87496-46	CV0971ZZ-CS	Solid	02/13/13 14:30	02/15/13 09:42
680-87496-47	CV0971AAA-CS	Solid	02/13/13 14:33	02/15/13 09:42
680-87496-48	CV0971BBB-CS	Solid	02/13/13 14:40	02/15/13 09:42
680-87496-49	FM0160A-CS	Solid	02/13/13 15:17	02/15/13 09:42
680-87496-50	FM0160B-CS	Solid	02/13/13 15:22	02/15/13 09:42
680-87496-51	FM0160C-CS	Solid	02/13/13 15:28	02/15/13 09:42
680-87496-52	FM0160C-CSD	Solid	02/13/13 15:30	02/15/13 09:42
680-87496-53	FM0160D-CS	Solid	02/13/13 15:35	02/15/13 09:42
680-87496-54	FM0160E-CS	Solid	02/13/13 15:38	02/15/13 09:42
680-87496-55	FM0160F-CS	Solid	02/13/13 15:45	02/15/13 09:42
680-87496-56	FM0160F-CSD	Solid	02/13/13 15:48	02/15/13 09:42
680-87496-57	FM0160G-CS	Solid	02/13/13 15:52	02/15/13 09:42
680-87496-58	FM0160H-CS	Solid	02/13/13 15:55	02/15/13 09:42
680-87496-59	FM0160I-CS	Solid	02/13/13 16:02	02/15/13 09:42
680-87496-60	FM0160J-CS	Solid	02/13/13 16:03	02/15/13 09:42

**ATTACHMENT B**  
**FIELD DUPLICATE EVALUATION**



Evaluation of Field Duplicate Results

Attachment B

Analyte	CV0971VV-CS (680-87496-41)	RL	CV0971VV-CSD (680-87496-42)	RL	Unit	Avg. RLx5	RPD	Absolute difference	2x Avg RL	Action
Acenaphthene		430	25	110	µg/kg	1350	NA	25	540	None, absolute difference ≤ 2x Avg RL
Acenaphthylene	100	170	80	45	µg/kg	537.5	NA	20	215	None, absolute difference ≤ 2x Avg RL
Anthracene	130	36	76	9.4	µg/kg	113.5	NA	54	45.4	J/UJ-flag, absolute difference > 2x Avg RL
Benzo(a)anthracene	600	34	410	8.9	µg/kg	107.25	38	NA	NA	None, RPD ≤ 50%
Benzo(a)pyrene	640	44	420	12	µg/kg	140	42	NA	NA	None, RPD ≤ 50%
Benzo(b)fluoranthene	1100	52	700	14	µg/kg	165	44	NA	NA	None, RPD ≤ 50%
Benzo(g,h,i)perylene	480	85	330	22	µg/kg	267.5	37	NA	NA	None, RPD ≤ 50%
Benzo(k)fluoranthene	320	34	260	8.9	µg/kg	107.25	21	NA	NA	None, RPD ≤ 50%
Chrysene	680	38	430	10	µg/kg	120	45	NA	NA	None, RPD ≤ 50%
Dibenzo(a,h)anthracene	150	85	82	22	µg/kg	267.5	NA	68	107	None, absolute difference ≤ 2x Avg RL
Fluoranthene	1200	85	730	22	µg/kg	267.5	49	NA	NA	None, RPD ≤ 50%
Fluorene	50	85	29	22	µg/kg	267.5	NA	21	107	None, absolute difference ≤ 2x Avg RL
Indeno(1,2,3-cd)pyrene	410	85	280	22	µg/kg	267.5	38	NA	NA	None, RPD ≤ 50%
1-Methylnaphthalene	120	170	98	45	µg/kg	537.5	NA	22	215	None, absolute difference ≤ 2x Avg RL
2-Methylnaphthalene	140	170	110	45	µg/kg	537.5	NA	30	215	None, absolute difference ≤ 2x Avg RL
Naphthalene	120	170	110	45	µg/kg	537.5	NA	10	215	None, absolute difference ≤ 2x Avg RL
Phenanthrene	580	34	350	8.9	µg/kg	107.25	49	NA	NA	None, RPD ≤ 50%
Pyrene	1100	85	690	22	µg/kg	267.5	46	NA	NA	None, RPD ≤ 50%

Analyte	FM0160C-CS (680-87496-51)	RL	FM0160C-CSD (680-87496-52)	RL	Unit	Avg. RLx5	RPD	Absolute difference	2x Avg RL	Action
Acenaphthylene	5.9	45	7.3	45	µg/kg	225	NA	1.4	90	None, absolute difference ≤ 2x Avg RL
Anthracene	9.6	9.5	8.3	9.5	µg/kg	47.5	NA	1.3	19	None, absolute difference ≤ 2x Avg RL
Benzo(a)anthracene	27	9.0	47	9.1	µg/kg	45.25	NA	20	18.1	J/UJ-flag, absolute difference > 2x Avg RL
Benzo(a)pyrene	23	12	38	12	µg/kg	60	NA	15	24	None, absolute difference ≤ 2x Avg RL
Benzo(b)fluoranthene	42	14	50	14	µg/kg	70	NA	8	28	None, absolute difference ≤ 2x Avg RL
Benzo(g,h,i)perylene	12	23	42	23	µg/kg	115	NA	30	46	None, absolute difference ≤ 2x Avg RL
Benzo(k)fluoranthene	18	9.0	25	9.1	µg/kg	45.25	NA	7	18.1	None, absolute difference ≤ 2x Avg RL
Chrysene	34	10	57	10	µg/kg	50	NA	23	20	J/UJ-flag, absolute difference > 2x Avg RL
Dibenzo(a,h)anthracene	5.2	23	15	23	µg/kg	115	NA	9.8	46	None, absolute difference ≤ 2x Avg RL
Fluoranthene	47	23	62	23	µg/kg	115	NA	15	46	None, absolute difference ≤ 2x Avg RL
Indeno(1,2,3-cd)pyrene	13	23	43	23	µg/kg	115	NA	30	46	None, absolute difference ≤ 2x Avg RL
1-Methylnaphthalene	20	45	24	45	µg/kg	225	NA	4	90	None, absolute difference ≤ 2x Avg RL
2-Methylnaphthalene	23	45	32	45	µg/kg	225	NA	9	90	None, absolute difference ≤ 2x Avg RL
Naphthalene	38	45	46	45	µg/kg	225	NA	8	90	None, absolute difference ≤ 2x Avg RL
Phenanthrene	32	9.0	49	9.1	µg/kg	45.25	NA	17	18.1	None, absolute difference ≤ 2x Avg RL
Pyrene	37	23	80	23	µg/kg	115	NA	43	46	None, absolute difference ≤ 2x Avg RL

# Evaluation of Field Duplicate Results

# Attachment B

Analyte	FM0160F-CS (680-87496-55)	RL	FM0160F-CSD (680-87496-56)	RL	Unit	Avg. RLx5	RPD	Absolute difference	2x Avg RL	Action
Acenaphthylene		49	10	42	µg/kg	227.5	NA	10	91	None, absolute difference ≤ 2x Avg RL
Anthracene	7.5	10	19	8.8	µg/kg	47	NA	11.5	18.8	None, absolute difference ≤ 2x Avg RL
Benzo(a)anthracene	37	9.8	71	8.4	µg/kg	45.5	NA	34	18.2	J/UJ-flag, absolute difference > 2x Avg RL
Benzo(a)pyrene	25	13	45	11	µg/kg	60	NA	20	24	None, absolute difference ≤ 2x Avg RL
Benzo(b)fluoranthene	35	15	75	13	µg/kg	70	NA	40	28	J/UJ-flag, absolute difference > 2x Avg RL
Benzo(g,h,i)perylene	29	24	57	21	µg/kg	112.5	NA	28	45	None, absolute difference ≤ 2x Avg RL
Benzo(k)fluoranthene	15	9.8	25	8.4	µg/kg	45.5	NA	10	18.2	None, absolute difference ≤ 2x Avg RL
Chrysene	32	11	87	9.4	µg/kg	51	NA	55	20.4	J/UJ-flag, absolute difference > 2x Avg RL
Dibenzo(a,h)anthracene	13	24	22	21	µg/kg	112.5	NA	9	45	None, absolute difference ≤ 2x Avg RL
Fluoranthene	44	24	77	21	µg/kg	112.5	NA	33	45	None, absolute difference ≤ 2x Avg RL
Fluorene		24	5.8	21	µg/kg	112.5	NA	5.8	45	None, absolute difference ≤ 2x Avg RL
Indeno(1,2,3-cd)pyrene	30	24	43	21	µg/kg	112.5	NA	13	45	None, absolute difference ≤ 2x Avg RL
1-Methylnaphthalene	16	49	41	42	µg/kg	227.5	NA	25	91	None, absolute difference ≤ 2x Avg RL
2-Methylnaphthalene	21	49	51	42	µg/kg	227.5	NA	30	91	None, absolute difference ≤ 2x Avg RL
Naphthalene	26	49	51	42	µg/kg	227.5	NA	25	91	None, absolute difference ≤ 2x Avg RL
Phenanthrene	34	9.8	82	8.4	µg/kg	45.5	NA	48	18.2	J/UJ-flag, absolute difference > 2x Avg RL
Pyrene	49	24	98	21	µg/kg	112.5	NA	49	45	J/UJ-flag, absolute difference > 2x Avg RL

Note: If the analyte was not detected, then the cell was left blank.

µg/kg - micrograms per kilogram

J - Estimated value

NA - Not applicable

RL - Reporting limit

RPD - Relative percent difference

UJ - Not detected and the limit is estimated

Precision is based on either the absolute difference between sample results or RPD. If the sample results are less than or equal to 5x's the RL, then precision is based on the absolute difference between duplicate results. If sample results >5x's RL, then precision is evaluated using RPD. J-Flag sample results whenever the absolute difference is greater than the RL (2x for soils) or the RPD >20% (50% for soil). Table above presents the results for detected analytes only.

**ATTACHMENT C**  
**CASE NARRATIVE**

## Case Narrative

Client: Oneida Total Integrated Enterprises LLC  
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-87496-3  
SDG: 68087496-3

**Job ID: 680-87496-3**

**Laboratory: TestAmerica Savannah**

### Narrative

#### CASE NARRATIVE

**Client: Oneida Total Integrated Enterprises LLC**

**Project: 35th Avenue Superfund Site**

**Report Number: 680-87496-3**

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

#### RECEIPT

The samples were received on 02/15/2013; the samples arrived in good condition, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 5.2° C and 5.8° C.

#### SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples CV0971VV-CS (680-87496-41), CV0971VV-CSD (680-87496-42), CV0971WW-CS (680-87496-43), CV0971XX-CS (680-87496-44), CV0971YY-CS (680-87496-45), CV0971ZZ-CS (680-87496-46), CV0971AAA-CS (680-87496-47), CV0971BBB-CS (680-87496-48), FM0160A-CS (680-87496-49), FM0160B-CS (680-87496-50), FM0160C-CS (680-87496-51), FM0160C-CSD (680-87496-52), FM0160D-CS (680-87496-53), FM0160E-CS (680-87496-54), FM0160F-CS (680-87496-55), FM0160F-CSD (680-87496-56), FM0160G-CS (680-87496-57), FM0160H-CS (680-87496-58), FM0160I-CS (680-87496-59) and FM0160J-CS (680-87496-60) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 02/20/2013 and analyzed on 02/21/2013, 02/22/2013 and 02/25/2013.

Samples CV0971VV-CS (680-87496-41)[4X], CV0971YY-CS (680-87496-45)[4X], CV0971ZZ-CS (680-87496-46)[4X], CV0971AAA-CS (680-87496-47)[4X] and CV0971BBB-CS (680-87496-48)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Several analytes recovered outside the recovery criteria for the MS of sample CV0971BBB-CS (680-87496-48) in batch 660-134722.

Several analytes recovered outside the recovery criteria for the MS/MSD of sample 680-87496-28 in batch 660-134719. Several analytes also exceeded the rpd limit for the MS/MSD in batch 660-134719.

No other difficulties were encountered during the Semivolatile Organic Compounds by GCMS - Low Level analyses.

All other quality control parameters were within the acceptance limits.

**ATTACHMENT D**  
**QUALIFIED SAMPLE RESULTS**

## Client Sample Results

Client: Oneida Total Integrated Enterprises LLC  
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-87496-3  
SDG: 68087496-3

**Client Sample ID: CV0971VV-CS**

Date Collected: 02/13/13 13:45

Date Received: 02/15/13 09:42

**Lab Sample ID: 680-87496-41**

Matrix: Solid

Percent Solids: 93.0

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	430	U	430	85	ug/Kg	☆	02/20/13 13:23	02/21/13 18:31	4
Acenaphthylene	100	J	170	21	ug/Kg	☆	02/20/13 13:23	02/21/13 18:31	4
Anthracene	130	J	36	18	ug/Kg	☆	02/20/13 13:23	02/21/13 18:31	4
Benzo[a]anthracene	600		34	17	ug/Kg	☆	02/20/13 13:23	02/21/13 18:31	4
Benzo[a]pyrene	640		44	22	ug/Kg	☆	02/20/13 13:23	02/21/13 18:31	4
Benzo[b]fluoranthene	1100		52	26	ug/Kg	☆	02/20/13 13:23	02/21/13 18:31	4
Benzo[g,h,i]perylene	480		85	19	ug/Kg	☆	02/20/13 13:23	02/21/13 18:31	4
Benzo[k]fluoranthene	320		34	15	ug/Kg	☆	02/20/13 13:23	02/21/13 18:31	4
Chrysene	680		38	19	ug/Kg	☆	02/20/13 13:23	02/21/13 18:31	4
Dibenz(a,h)anthracene	150		85	18	ug/Kg	☆	02/20/13 13:23	02/21/13 18:31	4
Fluoranthene	1200		85	17	ug/Kg	☆	02/20/13 13:23	02/21/13 18:31	4
Fluorene	50	J	85	18	ug/Kg	☆	02/20/13 13:23	02/21/13 18:31	4
Indeno[1,2,3-cd]pyrene	410		85	30	ug/Kg	☆	02/20/13 13:23	02/21/13 18:31	4
1-Methylnaphthalene	120	J	170	19	ug/Kg	☆	02/20/13 13:23	02/21/13 18:31	4
2-Methylnaphthalene	140	J	170	30	ug/Kg	☆	02/20/13 13:23	02/21/13 18:31	4
Naphthalene	120	J	170	19	ug/Kg	☆	02/20/13 13:23	02/21/13 18:31	4
Phenanthrene	580		34	17	ug/Kg	☆	02/20/13 13:23	02/21/13 18:31	4
Pyrene	1100		85	16	ug/Kg	☆	02/20/13 13:23	02/21/13 18:31	4
Surrogate	%Recovery	Qualifier	Limits						
o-Terphenyl	100		30 - 130						
							Prepared	Analyzed	Dil Fac
							02/20/13 13:23	02/21/13 18:31	4

**Client Sample ID: CV0971VV-CSD**

Date Collected: 02/13/13 13:48

Date Received: 02/15/13 09:42

**Lab Sample ID: 680-87496-42**

Matrix: Solid

Percent Solids: 88.8

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	25	J	110	22	ug/Kg	☆	02/20/13 13:23	02/21/13 18:49	1
Acenaphthylene	80		45	5.6	ug/Kg	☆	02/20/13 13:23	02/21/13 18:49	1
Anthracene	76	J	9.4	4.7	ug/Kg	☆	02/20/13 13:23	02/21/13 18:49	1
Benzo[a]anthracene	410		8.9	4.4	ug/Kg	☆	02/20/13 13:23	02/21/13 18:49	1
Benzo[a]pyrene	420		12	5.8	ug/Kg	☆	02/20/13 13:23	02/21/13 18:49	1
Benzo[b]fluoranthene	700		14	6.8	ug/Kg	☆	02/20/13 13:23	02/21/13 18:49	1
Benzo[g,h,i]perylene	330		22	4.9	ug/Kg	☆	02/20/13 13:23	02/21/13 18:49	1
Benzo[k]fluoranthene	260		8.9	4.0	ug/Kg	☆	02/20/13 13:23	02/21/13 18:49	1
Chrysene	430		10	5.0	ug/Kg	☆	02/20/13 13:23	02/21/13 18:49	1
Dibenz(a,h)anthracene	82		22	4.6	ug/Kg	☆	02/20/13 13:23	02/21/13 18:49	1
Fluoranthene	730		22	4.5	ug/Kg	☆	02/20/13 13:23	02/21/13 18:49	1
Fluorene	29		22	4.6	ug/Kg	☆	02/20/13 13:23	02/21/13 18:49	1
Indeno[1,2,3-cd]pyrene	280		22	7.9	ug/Kg	☆	02/20/13 13:23	02/21/13 18:49	1
1-Methylnaphthalene	98		45	4.9	ug/Kg	☆	02/20/13 13:23	02/21/13 18:49	1
2-Methylnaphthalene	110		45	7.9	ug/Kg	☆	02/20/13 13:23	02/21/13 18:49	1
Naphthalene	110		45	4.9	ug/Kg	☆	02/20/13 13:23	02/21/13 18:49	1
Phenanthrene	350		8.9	4.4	ug/Kg	☆	02/20/13 13:23	02/21/13 18:49	1
Pyrene	690		22	4.1	ug/Kg	☆	02/20/13 13:23	02/21/13 18:49	1
Surrogate	%Recovery	Qualifier	Limits						
o-Terphenyl	98		30 - 130						
							Prepared	Analyzed	Dil Fac
							02/20/13 13:23	02/21/13 18:49	1

TestAmerica Savannah

## Client Sample Results

Client: Oneida Total Integrated Enterprises LLC  
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-87496-3  
SDG: 68087496-3

**Client Sample ID: CV0971WW-CS**

**Lab Sample ID: 680-87496-43**

Date Collected: 02/13/13 14:07

Matrix: Solid

Date Received: 02/15/13 09:42

Percent Solids: 78.3

**Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	34	J	130	25	ug/Kg	☆	02/20/13 13:23	02/21/13 19:08	1
Acenaphthylene	54		50	6.3	ug/Kg	☆	02/20/13 13:23	02/21/13 19:08	1
Anthracene	230		11	5.3	ug/Kg	☆	02/20/13 13:23	02/21/13 19:08	1
Benzo[a]anthracene	890		10	4.9	ug/Kg	☆	02/20/13 13:23	02/21/13 19:08	1
Benzo[a]pyrene	770		13	6.5	ug/Kg	☆	02/20/13 13:23	02/21/13 19:08	1
Benzo[b]fluoranthene	1100		15	7.7	ug/Kg	☆	02/20/13 13:23	02/21/13 19:08	1
Benzo[g,h,i]perylene	440		25	5.5	ug/Kg	☆	02/20/13 13:23	02/21/13 19:08	1
Benzo[k]fluoranthene	430		10	4.5	ug/Kg	☆	02/20/13 13:23	02/21/13 19:08	1
Chrysene	710		11	5.7	ug/Kg	☆	02/20/13 13:23	02/21/13 19:08	1
Dibenz(a,h)anthracene	130		25	5.2	ug/Kg	☆	02/20/13 13:23	02/21/13 19:08	1
Fluoranthene	1700		25	5.0	ug/Kg	☆	02/20/13 13:23	02/21/13 19:08	1
Fluorene	38		25	5.2	ug/Kg	☆	02/20/13 13:23	02/21/13 19:08	1
Indeno[1,2,3-cd]pyrene	380		25	8.9	ug/Kg	☆	02/20/13 13:23	02/21/13 19:08	1
1-Methylnaphthalene	14	J	50	5.5	ug/Kg	☆	02/20/13 13:23	02/21/13 19:08	1
2-Methylnaphthalene	26	J	50	8.9	ug/Kg	☆	02/20/13 13:23	02/21/13 19:08	1
Naphthalene	31	J	50	5.5	ug/Kg	☆	02/20/13 13:23	02/21/13 19:08	1
Phenanthrene	700		10	4.9	ug/Kg	☆	02/20/13 13:23	02/21/13 19:08	1
Pyrene	1500		25	4.7	ug/Kg	☆	02/20/13 13:23	02/21/13 19:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	78		30 - 130	02/20/13 13:23	02/21/13 19:08	1

**Client Sample ID: CV0971XX-CS**

**Lab Sample ID: 680-87496-44**

Date Collected: 02/13/13 14:10

Matrix: Solid

Date Received: 02/15/13 09:42

Percent Solids: 89.3

**Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	110	U	110	22	ug/Kg	☆	02/20/13 13:23	02/21/13 19:26	1
Acenaphthylene	15	J	45	5.6	ug/Kg	☆	02/20/13 13:23	02/21/13 19:26	1
Anthracene	19		9.4	4.7	ug/Kg	☆	02/20/13 13:23	02/21/13 19:26	1
Benzo[a]anthracene	110		9.0	4.4	ug/Kg	☆	02/20/13 13:23	02/21/13 19:26	1
Benzo[a]pyrene	110		12	5.8	ug/Kg	☆	02/20/13 13:23	02/21/13 19:26	1
Benzo[b]fluoranthene	190		14	6.8	ug/Kg	☆	02/20/13 13:23	02/21/13 19:26	1
Benzo[g,h,i]perylene	78		22	4.9	ug/Kg	☆	02/20/13 13:23	02/21/13 19:26	1
Benzo[k]fluoranthene	51		9.0	4.0	ug/Kg	☆	02/20/13 13:23	02/21/13 19:26	1
Chrysene	100		10	5.0	ug/Kg	☆	02/20/13 13:23	02/21/13 19:26	1
Dibenz(a,h)anthracene	25		22	4.6	ug/Kg	☆	02/20/13 13:23	02/21/13 19:26	1
Fluoranthene	170		22	4.5	ug/Kg	☆	02/20/13 13:23	02/21/13 19:26	1
Fluorene	6.2	J	22	4.6	ug/Kg	☆	02/20/13 13:23	02/21/13 19:26	1
Indeno[1,2,3-cd]pyrene	59		22	8.0	ug/Kg	☆	02/20/13 13:23	02/21/13 19:26	1
1-Methylnaphthalene	34	J	45	4.9	ug/Kg	☆	02/20/13 13:23	02/21/13 19:26	1
2-Methylnaphthalene	38	J	45	8.0	ug/Kg	☆	02/20/13 13:23	02/21/13 19:26	1
Naphthalene	41	J	45	4.9	ug/Kg	☆	02/20/13 13:23	02/21/13 19:26	1
Phenanthrene	87		9.0	4.4	ug/Kg	☆	02/20/13 13:23	02/21/13 19:26	1
Pyrene	160		22	4.1	ug/Kg	☆	02/20/13 13:23	02/21/13 19:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	95		30 - 130	02/20/13 13:23	02/21/13 19:26	1

TestAmerica Savannah

## Client Sample Results

Client: Oneida Total Integrated Enterprises LLC  
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-87496-3  
SDG: 68087496-3

**Client Sample ID: CV0971YY-CS**

**Lab Sample ID: 680-87496-45**

Date Collected: 02/13/13 14:15

Matrix: Solid

Date Received: 02/15/13 09:42

Percent Solids: 90.7

### Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	430	U	430	86	ug/Kg	☆	02/20/13 15:19	02/21/13 20:14	4
Acenaphthylene	52	J	170	22	ug/Kg	☆	02/20/13 15:19	02/21/13 20:14	4
Anthracene	78		36	18	ug/Kg	☆	02/20/13 15:19	02/21/13 20:14	4
Benzo[a]anthracene	260		34	17	ug/Kg	☆	02/20/13 15:19	02/21/13 20:14	4
Benzo[a]pyrene	270		45	22	ug/Kg	☆	02/20/13 15:19	02/21/13 20:14	4
Benzo[b]fluoranthene	460		53	26	ug/Kg	☆	02/20/13 15:19	02/21/13 20:14	4
Benzo[g,h,i]perylene	160		86	19	ug/Kg	☆	02/20/13 15:19	02/21/13 20:14	4
Benzo[k]fluoranthene	170		34	16	ug/Kg	☆	02/20/13 15:19	02/21/13 20:14	4
Chrysene	360		39	19	ug/Kg	☆	02/20/13 15:19	02/21/13 20:14	4
Dibenz(a,h)anthracene	49	J	86	18	ug/Kg	☆	02/20/13 15:19	02/21/13 20:14	4
Fluoranthene	520		86	17	ug/Kg	☆	02/20/13 15:19	02/21/13 20:14	4
Fluorene	18	J	86	18	ug/Kg	☆	02/20/13 15:19	02/21/13 20:14	4
Indeno[1,2,3-cd]pyrene	160		86	31	ug/Kg	☆	02/20/13 15:19	02/21/13 20:14	4
1-Methylnaphthalene	110	J	170	19	ug/Kg	☆	02/20/13 15:19	02/21/13 20:14	4
2-Methylnaphthalene	140	J	170	31	ug/Kg	☆	02/20/13 15:19	02/21/13 20:14	4
Naphthalene	120	J	170	19	ug/Kg	☆	02/20/13 15:19	02/21/13 20:14	4
Phenanthrene	300		34	17	ug/Kg	☆	02/20/13 15:19	02/21/13 20:14	4
Pyrene	410		86	16	ug/Kg	☆	02/20/13 15:19	02/21/13 20:14	4
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
o-Terphenyl	109		30 - 130				02/20/13 15:19	02/21/13 20:14	4

**Client Sample ID: CV0971ZZ-CS**

**Lab Sample ID: 680-87496-46**

Date Collected: 02/13/13 14:30

Matrix: Solid

Date Received: 02/15/13 09:42

Percent Solids: 97.9

### Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	410	U	410	82	ug/Kg	☆	02/20/13 15:19	02/25/13 15:29	4
Acenaphthylene	70	J	160	20	ug/Kg	☆	02/20/13 15:19	02/25/13 15:29	4
Anthracene	100		34	17	ug/Kg	☆	02/20/13 15:19	02/25/13 15:29	4
Benzo[a]anthracene	420		33	16	ug/Kg	☆	02/20/13 15:19	02/25/13 15:29	4
Benzo[a]pyrene	320		43	21	ug/Kg	☆	02/20/13 15:19	02/25/13 15:29	4
Benzo[b]fluoranthene	570		50	25	ug/Kg	☆	02/20/13 15:19	02/25/13 15:29	4
Benzo[g,h,i]perylene	380		82	18	ug/Kg	☆	02/20/13 15:19	02/25/13 15:29	4
Benzo[k]fluoranthene	170		33	15	ug/Kg	☆	02/20/13 15:19	02/25/13 15:29	4
Chrysene	450		37	18	ug/Kg	☆	02/20/13 15:19	02/25/13 15:29	4
Dibenz(a,h)anthracene	100		82	17	ug/Kg	☆	02/20/13 15:19	02/25/13 15:29	4
Fluoranthene	670		82	16	ug/Kg	☆	02/20/13 15:19	02/25/13 15:29	4
Fluorene	30	J	82	17	ug/Kg	☆	02/20/13 15:19	02/25/13 15:29	4
Indeno[1,2,3-cd]pyrene	290		82	29	ug/Kg	☆	02/20/13 15:19	02/25/13 15:29	4
1-Methylnaphthalene	92	J	160	18	ug/Kg	☆	02/20/13 15:19	02/25/13 15:29	4
2-Methylnaphthalene	100	J	160	29	ug/Kg	☆	02/20/13 15:19	02/25/13 15:29	4
Naphthalene	100	J	160	18	ug/Kg	☆	02/20/13 15:19	02/25/13 15:29	4
Phenanthrene	380		33	16	ug/Kg	☆	02/20/13 15:19	02/25/13 15:29	4
Pyrene	750		82	15	ug/Kg	☆	02/20/13 15:19	02/25/13 15:29	4
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
o-Terphenyl	94		30 - 130				02/20/13 15:19	02/25/13 15:29	4

TestAmerica Savannah



# Client Sample Results

Client: Oneida Total Integrated Enterprises LLC  
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-87496-3  
SDG: 68087496-3

Client Sample ID: CV0971AAA-CS

Lab Sample ID: 680-87496-47

Date Collected: 02/13/13 14:33

Matrix: Solid

Date Received: 02/15/13 09:42

Percent Solids: 98.3

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	90	J	410	81	ug/Kg	☼	02/20/13 15:19	02/21/13 20:59	4
Acenaphthylene	78	J	160	20	ug/Kg	☼	02/20/13 15:19	02/21/13 20:59	4
Anthracene	240		34	17	ug/Kg	☼	02/20/13 15:19	02/21/13 20:59	4
Benzo[a]anthracene	880		32	16	ug/Kg	☼	02/20/13 15:19	02/21/13 20:59	4
Benzo[a]pyrene	830		42	21	ug/Kg	☼	02/20/13 15:19	02/21/13 20:59	4
Benzo[b]fluoranthene	1500		49	25	ug/Kg	☼	02/20/13 15:19	02/21/13 20:59	4
Benzo[g,h,i]perylene	440		81	18	ug/Kg	☼	02/20/13 15:19	02/21/13 20:59	4
Benzo[k]fluoranthene	560		32	15	ug/Kg	☼	02/20/13 15:19	02/21/13 20:59	4
Chrysene	1000		36	18	ug/Kg	☼	02/20/13 15:19	02/21/13 20:59	4
Dibenz(a,h)anthracene	140		81	17	ug/Kg	☼	02/20/13 15:19	02/21/13 20:59	4
Fluoranthene	2000		81	16	ug/Kg	☼	02/20/13 15:19	02/21/13 20:59	4
Fluorene	80	J	81	17	ug/Kg	☼	02/20/13 15:19	02/21/13 20:59	4
Indeno[1,2,3-cd]pyrene	430		81	29	ug/Kg	☼	02/20/13 15:19	02/21/13 20:59	4
1-Methylnaphthalene	140	J	160	18	ug/Kg	☼	02/20/13 15:19	02/21/13 20:59	4
2-Methylnaphthalene	160		160	29	ug/Kg	☼	02/20/13 15:19	02/21/13 20:59	4
Naphthalene	120	J	160	18	ug/Kg	☼	02/20/13 15:19	02/21/13 20:59	4
Phenanthrene	1100		32	16	ug/Kg	☼	02/20/13 15:19	02/21/13 20:59	4
Pyrene	1500		81	15	ug/Kg	☼	02/20/13 15:19	02/21/13 20:59	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	106		30 - 130				02/20/13 15:19	02/21/13 20:59	4

Client Sample ID: CV0971BBB-CS

Lab Sample ID: 680-87496-48

Date Collected: 02/13/13 14:40

Matrix: Solid

Date Received: 02/15/13 09:42

Percent Solids: 93.8

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	430	U	430	85	ug/Kg	☼	02/20/13 15:19	02/21/13 21:21	4
Acenaphthylene	42	J	170	21	ug/Kg	☼	02/20/13 15:19	02/21/13 21:21	4
Anthracene	57		36	18	ug/Kg	☼	02/20/13 15:19	02/21/13 21:21	4
Benzo[a]anthracene	200		34	17	ug/Kg	☼	02/20/13 15:19	02/21/13 21:21	4
Benzo[a]pyrene	210		44	22	ug/Kg	☼	02/20/13 15:19	02/21/13 21:21	4
Benzo[b]fluoranthene	400	F	52	26	ug/Kg	☼	02/20/13 15:19	02/21/13 21:21	4
Benzo[g,h,i]perylene	110		85	19	ug/Kg	☼	02/20/13 15:19	02/21/13 21:21	4
Benzo[k]fluoranthene	130	F	34	15	ug/Kg	☼	02/20/13 15:19	02/21/13 21:21	4
Chrysene	250		38	19	ug/Kg	☼	02/20/13 15:19	02/21/13 21:21	4
Dibenz(a,h)anthracene	39	J	85	17	ug/Kg	☼	02/20/13 15:19	02/21/13 21:21	4
Fluoranthene	350	F	85	17	ug/Kg	☼	02/20/13 15:19	02/21/13 21:21	4
Fluorene	85	U	85	17	ug/Kg	☼	02/20/13 15:19	02/21/13 21:21	4
Indeno[1,2,3-cd]pyrene	110		85	30	ug/Kg	☼	02/20/13 15:19	02/21/13 21:21	4
1-Methylnaphthalene	100	J	170	19	ug/Kg	☼	02/20/13 15:19	02/21/13 21:21	4
2-Methylnaphthalene	120	J	170	30	ug/Kg	☼	02/20/13 15:19	02/21/13 21:21	4
Naphthalene	100	J	170	19	ug/Kg	☼	02/20/13 15:19	02/21/13 21:21	4
Phenanthrene	210		34	17	ug/Kg	☼	02/20/13 15:19	02/21/13 21:21	4
Pyrene	290	F	85	16	ug/Kg	☼	02/20/13 15:19	02/21/13 21:21	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	97		30 - 130				02/20/13 15:19	02/21/13 21:21	4

TestAmerica Savannah

## Client Sample Results

Client: Oneida Total Integrated Enterprises LLC  
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-87496-3  
SDG: 68087496-3

**Client Sample ID: FM0160A-CS**

**Lab Sample ID: 680-87496-49**

Date Collected: 02/13/13 15:17

Matrix: Solid

Date Received: 02/15/13 09:42

Percent Solids: 87.7

### Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	110	U	110	23	ug/Kg	☆	02/20/13 15:19	02/21/13 22:29	1
Acenaphthylene	45	U	45	5.7	ug/Kg	☆	02/20/13 15:19	02/21/13 22:29	1
Anthracene	8.4	J	9.5	4.8	ug/Kg	☆	02/20/13 15:19	02/21/13 22:29	1
Benzo[a]anthracene	23		9.1	4.4	ug/Kg	☆	02/20/13 15:19	02/21/13 22:29	1
Benzo[a]pyrene	19		12	5.9	ug/Kg	☆	02/20/13 15:19	02/21/13 22:29	1
Benzo[b]fluoranthene	41		14	6.9	ug/Kg	☆	02/20/13 15:19	02/21/13 22:29	1
Benzo[g,h,i]perylene	8.9	J	23	5.0	ug/Kg	☆	02/20/13 15:19	02/21/13 22:29	1
Benzo[k]fluoranthene	15		9.1	4.1	ug/Kg	☆	02/20/13 15:19	02/21/13 22:29	1
Chrysene	37		10	5.1	ug/Kg	☆	02/20/13 15:19	02/21/13 22:29	1
Dibenz(a,h)anthracene	23	U	23	4.6	ug/Kg	☆	02/20/13 15:19	02/21/13 22:29	1
Fluoranthene	53		23	4.5	ug/Kg	☆	02/20/13 15:19	02/21/13 22:29	1
Fluorene	23	U	23	4.6	ug/Kg	☆	02/20/13 15:19	02/21/13 22:29	1
Indeno[1,2,3-cd]pyrene	9.6	J	23	8.0	ug/Kg	☆	02/20/13 15:19	02/21/13 22:29	1
1-Methylnaphthalene	16	J	45	5.0	ug/Kg	☆	02/20/13 15:19	02/21/13 22:29	1
2-Methylnaphthalene	21	J	45	8.0	ug/Kg	☆	02/20/13 15:19	02/21/13 22:29	1
Naphthalene	32	J	45	5.0	ug/Kg	☆	02/20/13 15:19	02/21/13 22:29	1
Phenanthrene	35		9.1	4.4	ug/Kg	☆	02/20/13 15:19	02/21/13 22:29	1
Pyrene	37		23	4.2	ug/Kg	☆	02/20/13 15:19	02/21/13 22:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	95		30 - 130	02/20/13 15:19	02/21/13 22:29	1

**Client Sample ID: FM0160B-CS**

**Lab Sample ID: 680-87496-50**

Date Collected: 02/13/13 15:22

Matrix: Solid

Date Received: 02/15/13 09:42

Percent Solids: 83.9

### Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	24	ug/Kg	☆	02/20/13 15:19	02/21/13 22:52	1
Acenaphthylene	11	J	47	5.9	ug/Kg	☆	02/20/13 15:19	02/21/13 22:52	1
Anthracene	16		9.9	5.0	ug/Kg	☆	02/20/13 15:19	02/21/13 22:52	1
Benzo[a]anthracene	33		9.5	4.6	ug/Kg	☆	02/20/13 15:19	02/21/13 22:52	1
Benzo[a]pyrene	26		12	6.2	ug/Kg	☆	02/20/13 15:19	02/21/13 22:52	1
Benzo[b]fluoranthene	69		14	7.2	ug/Kg	☆	02/20/13 15:19	02/21/13 22:52	1
Benzo[g,h,i]perylene	13	J	24	5.2	ug/Kg	☆	02/20/13 15:19	02/21/13 22:52	1
Benzo[k]fluoranthene	21		9.5	4.3	ug/Kg	☆	02/20/13 15:19	02/21/13 22:52	1
Chrysene	61		11	5.3	ug/Kg	☆	02/20/13 15:19	02/21/13 22:52	1
Dibenz(a,h)anthracene	5.1	J	24	4.9	ug/Kg	☆	02/20/13 15:19	02/21/13 22:52	1
Fluoranthene	78		24	4.7	ug/Kg	☆	02/20/13 15:19	02/21/13 22:52	1
Fluorene	24	U	24	4.9	ug/Kg	☆	02/20/13 15:19	02/21/13 22:52	1
Indeno[1,2,3-cd]pyrene	13	J	24	8.4	ug/Kg	☆	02/20/13 15:19	02/21/13 22:52	1
1-Methylnaphthalene	24	J	47	5.2	ug/Kg	☆	02/20/13 15:19	02/21/13 22:52	1
2-Methylnaphthalene	31	J	47	8.4	ug/Kg	☆	02/20/13 15:19	02/21/13 22:52	1
Naphthalene	45	J	47	5.2	ug/Kg	☆	02/20/13 15:19	02/21/13 22:52	1
Phenanthrene	41		9.5	4.6	ug/Kg	☆	02/20/13 15:19	02/21/13 22:52	1
Pyrene	60		24	4.4	ug/Kg	☆	02/20/13 15:19	02/21/13 22:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	91		30 - 130	02/20/13 15:19	02/21/13 22:52	1

TestAmerica Savannah

## Client Sample Results

Client: Oneida Total Integrated Enterprises LLC  
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-87496-3  
SDG: 68087496-3

**Client Sample ID: FM0160C-CS**

**Lab Sample ID: 680-87496-51**

Date Collected: 02/13/13 15:28

Matrix: Solid

Date Received: 02/15/13 09:42

Percent Solids: 85.8

**Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	110	U	110	23	ug/Kg	☆	02/20/13 15:19	02/21/13 23:14	1
Acenaphthylene	5.9	J	45	5.6	ug/Kg	☆	02/20/13 15:19	02/21/13 23:14	1
Anthracene	9.6		9.5	4.7	ug/Kg	☆	02/20/13 15:19	02/21/13 23:14	1
Benzo[a]anthracene	27	J	9.0	4.4	ug/Kg	☆	02/20/13 15:19	02/21/13 23:14	1
Benzo[a]pyrene	23		12	5.9	ug/Kg	☆	02/20/13 15:19	02/21/13 23:14	1
Benzo[b]fluoranthene	42		14	6.9	ug/Kg	☆	02/20/13 15:19	02/21/13 23:14	1
Benzo[g,h,i]perylene	12	J	23	5.0	ug/Kg	☆	02/20/13 15:19	02/21/13 23:14	1
Benzo[k]fluoranthene	18		9.0	4.1	ug/Kg	☆	02/20/13 15:19	02/21/13 23:14	1
Chrysene	34	J	10	5.1	ug/Kg	☆	02/20/13 15:19	02/21/13 23:14	1
Dibenz(a,h)anthracene	5.2	J	23	4.6	ug/Kg	☆	02/20/13 15:19	02/21/13 23:14	1
Fluoranthene	47		23	4.5	ug/Kg	☆	02/20/13 15:19	02/21/13 23:14	1
Fluorene	23	U	23	4.6	ug/Kg	☆	02/20/13 15:19	02/21/13 23:14	1
Indeno[1,2,3-cd]pyrene	13	J	23	8.0	ug/Kg	☆	02/20/13 15:19	02/21/13 23:14	1
1-Methylnaphthalene	20	J	45	5.0	ug/Kg	☆	02/20/13 15:19	02/21/13 23:14	1
2-Methylnaphthalene	23	J	45	8.0	ug/Kg	☆	02/20/13 15:19	02/21/13 23:14	1
Naphthalene	38	J	45	5.0	ug/Kg	☆	02/20/13 15:19	02/21/13 23:14	1
Phenanthrene	32		9.0	4.4	ug/Kg	☆	02/20/13 15:19	02/21/13 23:14	1
Pyrene	37		23	4.2	ug/Kg	☆	02/20/13 15:19	02/21/13 23:14	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
o-Terphenyl	86		30 - 130				02/20/13 15:19	02/21/13 23:14	1

**Client Sample ID: FM0160C-CSD**

**Lab Sample ID: 680-87496-52**

Date Collected: 02/13/13 15:30

Matrix: Solid

Date Received: 02/15/13 09:42

Percent Solids: 88.7

**Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	110	U	110	23	ug/Kg	☆	02/20/13 15:19	02/22/13 13:23	1
Acenaphthylene	7.3	J	45	5.7	ug/Kg	☆	02/20/13 15:19	02/22/13 13:23	1
Anthracene	8.3	J	9.5	4.8	ug/Kg	☆	02/20/13 15:19	02/22/13 13:23	1
Benzo[a]anthracene	47	J	9.1	4.4	ug/Kg	☆	02/20/13 15:19	02/22/13 13:23	1
Benzo[a]pyrene	38		12	5.9	ug/Kg	☆	02/20/13 15:19	02/22/13 13:23	1
Benzo[b]fluoranthene	50		14	6.9	ug/Kg	☆	02/20/13 15:19	02/22/13 13:23	1
Benzo[g,h,i]perylene	42		23	5.0	ug/Kg	☆	02/20/13 15:19	02/22/13 13:23	1
Benzo[k]fluoranthene	25		9.1	4.1	ug/Kg	☆	02/20/13 15:19	02/22/13 13:23	1
Chrysene	57	J	10	5.1	ug/Kg	☆	02/20/13 15:19	02/22/13 13:23	1
Dibenz(a,h)anthracene	15	J	23	4.6	ug/Kg	☆	02/20/13 15:19	02/22/13 13:23	1
Fluoranthene	62		23	4.5	ug/Kg	☆	02/20/13 15:19	02/22/13 13:23	1
Fluorene	23	U	23	4.6	ug/Kg	☆	02/20/13 15:19	02/22/13 13:23	1
Indeno[1,2,3-cd]pyrene	43		23	8.0	ug/Kg	☆	02/20/13 15:19	02/22/13 13:23	1
1-Methylnaphthalene	24	J	45	5.0	ug/Kg	☆	02/20/13 15:19	02/22/13 13:23	1
2-Methylnaphthalene	32	J	45	8.0	ug/Kg	☆	02/20/13 15:19	02/22/13 13:23	1
Naphthalene	46		45	5.0	ug/Kg	☆	02/20/13 15:19	02/22/13 13:23	1
Phenanthrene	49		9.1	4.4	ug/Kg	☆	02/20/13 15:19	02/22/13 13:23	1
Pyrene	80		23	4.2	ug/Kg	☆	02/20/13 15:19	02/22/13 13:23	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
o-Terphenyl	85		30 - 130				02/20/13 15:19	02/22/13 13:23	1

TestAmerica Savannah

## Client Sample Results

Client: Oneida Total Integrated Enterprises LLC  
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-87496-3  
SDG: 68087496-3

**Client Sample ID: FM0160D-CS**

**Lab Sample ID: 680-87496-53**

Date Collected: 02/13/13 15:35

Matrix: Solid

Date Received: 02/15/13 09:42

Percent Solids: 85.8

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	110	U	110	23	ug/Kg	☆	02/20/13 15:19	02/22/13 13:38	1
Acenaphthylene	45	U	45	5.7	ug/Kg	☆	02/20/13 15:19	02/22/13 13:38	1
Anthracene	7.3	J	9.5	4.8	ug/Kg	☆	02/20/13 15:19	02/22/13 13:38	1
Benzo[a]anthracene	33		9.1	4.4	ug/Kg	☆	02/20/13 15:19	02/22/13 13:38	1
Benzo[a]pyrene	18		12	5.9	ug/Kg	☆	02/20/13 15:19	02/22/13 13:38	1
Benzo[b]fluoranthene	32		14	6.9	ug/Kg	☆	02/20/13 15:19	02/22/13 13:38	1
Benzo[g,h,i]perylene	23		23	5.0	ug/Kg	☆	02/20/13 15:19	02/22/13 13:38	1
Benzo[k]fluoranthene	13		9.1	4.1	ug/Kg	☆	02/20/13 15:19	02/22/13 13:38	1
Chrysene	31		10	5.1	ug/Kg	☆	02/20/13 15:19	02/22/13 13:38	1
Dibenz(a,h)anthracene	8.6	J	23	4.7	ug/Kg	☆	02/20/13 15:19	02/22/13 13:38	1
Fluoranthene	41		23	4.5	ug/Kg	☆	02/20/13 15:19	02/22/13 13:38	1
Fluorene	23	U	23	4.7	ug/Kg	☆	02/20/13 15:19	02/22/13 13:38	1
Indeno[1,2,3-cd]pyrene	22	J	23	8.1	ug/Kg	☆	02/20/13 15:19	02/22/13 13:38	1
1-Methylnaphthalene	16	J	45	5.0	ug/Kg	☆	02/20/13 15:19	02/22/13 13:38	1
2-Methylnaphthalene	21	J	45	8.1	ug/Kg	☆	02/20/13 15:19	02/22/13 13:38	1
Naphthalene	32	J	45	5.0	ug/Kg	☆	02/20/13 15:19	02/22/13 13:38	1
Phenanthrene	38		9.1	4.4	ug/Kg	☆	02/20/13 15:19	02/22/13 13:38	1
Pyrene	48		23	4.2	ug/Kg	☆	02/20/13 15:19	02/22/13 13:38	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
o-Terphenyl	78		30 - 130				02/20/13 15:19	02/22/13 13:38	1

**Client Sample ID: FM0160E-CS**

**Lab Sample ID: 680-87496-54**

Date Collected: 02/13/13 15:38

Matrix: Solid

Date Received: 02/15/13 09:42

Percent Solids: 95.9

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	100	U	100	21	ug/Kg	☆	02/20/13 15:19	02/22/13 13:53	1
Acenaphthylene	30	J	42	5.2	ug/Kg	☆	02/20/13 15:19	02/22/13 13:53	1
Anthracene	57		8.8	4.4	ug/Kg	☆	02/20/13 15:19	02/22/13 13:53	1
Benzo[a]anthracene	180		8.4	4.1	ug/Kg	☆	02/20/13 15:19	02/22/13 13:53	1
Benzo[a]pyrene	100		11	5.4	ug/Kg	☆	02/20/13 15:19	02/22/13 13:53	1
Benzo[b]fluoranthene	340		13	6.4	ug/Kg	☆	02/20/13 15:19	02/22/13 13:53	1
Benzo[g,h,i]perylene	110		21	4.6	ug/Kg	☆	02/20/13 15:19	02/22/13 13:53	1
Benzo[k]fluoranthene	110		8.4	3.8	ug/Kg	☆	02/20/13 15:19	02/22/13 13:53	1
Chrysene	470		9.4	4.7	ug/Kg	☆	02/20/13 15:19	02/22/13 13:53	1
Dibenz(a,h)anthracene	36		21	4.3	ug/Kg	☆	02/20/13 15:19	02/22/13 13:53	1
Fluoranthene	310		21	4.2	ug/Kg	☆	02/20/13 15:19	02/22/13 13:53	1
Fluorene	8.2	J	21	4.3	ug/Kg	☆	02/20/13 15:19	02/22/13 13:53	1
Indeno[1,2,3-cd]pyrene	110		21	7.4	ug/Kg	☆	02/20/13 15:19	02/22/13 13:53	1
1-Methylnaphthalene	33	J	42	4.6	ug/Kg	☆	02/20/13 15:19	02/22/13 13:53	1
2-Methylnaphthalene	43	J	42	7.4	ug/Kg	☆	02/20/13 15:19	02/22/13 13:53	1
Naphthalene	52		42	4.6	ug/Kg	☆	02/20/13 15:19	02/22/13 13:53	1
Phenanthrene	81		8.4	4.1	ug/Kg	☆	02/20/13 15:19	02/22/13 13:53	1
Pyrene	480		21	3.9	ug/Kg	☆	02/20/13 15:19	02/22/13 13:53	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
o-Terphenyl	75		30 - 130				02/20/13 15:19	02/22/13 13:53	1

TestAmerica Savannah

## Client Sample Results

Client: Oneida Total Integrated Enterprises LLC  
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-87496-3  
SDG: 68087496-3

**Client Sample ID: FM0160F-CS**

**Lab Sample ID: 680-87496-55**

Date Collected: 02/13/13 15:45

Matrix: Solid

Date Received: 02/15/13 09:42

Percent Solids: 79.3

**Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	24	ug/Kg	☆	02/20/13 15:19	02/22/13 14:08	1
Acenaphthylene	49	U	49	6.1	ug/Kg	☆	02/20/13 15:19	02/22/13 14:08	1
Anthracene	7.5	J	10	5.1	ug/Kg	☆	02/20/13 15:19	02/22/13 14:08	1
Benzo[a]anthracene	37	J	9.8	4.8	ug/Kg	☆	02/20/13 15:19	02/22/13 14:08	1
Benzo[a]pyrene	25	J	13	6.3	ug/Kg	☆	02/20/13 15:19	02/22/13 14:08	1
Benzo[b]fluoranthene	35	J	15	7.4	ug/Kg	☆	02/20/13 15:19	02/22/13 14:08	1
Benzo[g,h,i]perylene	29	J	24	5.4	ug/Kg	☆	02/20/13 15:19	02/22/13 14:08	1
Benzo[k]fluoranthene	15	J	9.8	4.4	ug/Kg	☆	02/20/13 15:19	02/22/13 14:08	1
Chrysene	32	J	11	5.5	ug/Kg	☆	02/20/13 15:19	02/22/13 14:08	1
Dibenz(a,h)anthracene	13	J	24	5.0	ug/Kg	☆	02/20/13 15:19	02/22/13 14:08	1
Fluoranthene	44	J	24	4.9	ug/Kg	☆	02/20/13 15:19	02/22/13 14:08	1
Fluorene	24	U	24	5.0	ug/Kg	☆	02/20/13 15:19	02/22/13 14:08	1
Indeno[1,2,3-cd]pyrene	30	J	24	8.7	ug/Kg	☆	02/20/13 15:19	02/22/13 14:08	1
1-Methylnaphthalene	16	J	49	5.4	ug/Kg	☆	02/20/13 15:19	02/22/13 14:08	1
2-Methylnaphthalene	21	J	49	8.7	ug/Kg	☆	02/20/13 15:19	02/22/13 14:08	1
Naphthalene	26	J	49	5.4	ug/Kg	☆	02/20/13 15:19	02/22/13 14:08	1
Phenanthrene	34	J	9.8	4.8	ug/Kg	☆	02/20/13 15:19	02/22/13 14:08	1
Pyrene	49	J	24	4.5	ug/Kg	☆	02/20/13 15:19	02/22/13 14:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	77		30 - 130	02/20/13 15:19	02/22/13 14:08	1

**Client Sample ID: FM0160F-CSD**

**Lab Sample ID: 680-87496-56**

Date Collected: 02/13/13 15:48

Matrix: Solid

Date Received: 02/15/13 09:42

Percent Solids: 94.3

**Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	100	U	100	21	ug/Kg	☆	02/20/13 15:19	02/22/13 14:24	1
Acenaphthylene	10	J	42	5.2	ug/Kg	☆	02/20/13 15:19	02/22/13 14:24	1
Anthracene	19	J	8.8	4.4	ug/Kg	☆	02/20/13 15:19	02/22/13 14:24	1
Benzo[a]anthracene	71	J	8.4	4.1	ug/Kg	☆	02/20/13 15:19	02/22/13 14:24	1
Benzo[a]pyrene	45	J	11	5.5	ug/Kg	☆	02/20/13 15:19	02/22/13 14:24	1
Benzo[b]fluoranthene	75	J	13	6.4	ug/Kg	☆	02/20/13 15:19	02/22/13 14:24	1
Benzo[g,h,i]perylene	57	J	21	4.6	ug/Kg	☆	02/20/13 15:19	02/22/13 14:24	1
Benzo[k]fluoranthene	25	J	8.4	3.8	ug/Kg	☆	02/20/13 15:19	02/22/13 14:24	1
Chrysene	87	J	9.4	4.7	ug/Kg	☆	02/20/13 15:19	02/22/13 14:24	1
Dibenz(a,h)anthracene	22	J	21	4.3	ug/Kg	☆	02/20/13 15:19	02/22/13 14:24	1
Fluoranthene	77	J	21	4.2	ug/Kg	☆	02/20/13 15:19	02/22/13 14:24	1
Fluorene	5.8	J	21	4.3	ug/Kg	☆	02/20/13 15:19	02/22/13 14:24	1
Indeno[1,2,3-cd]pyrene	43	J	21	7.4	ug/Kg	☆	02/20/13 15:19	02/22/13 14:24	1
1-Methylnaphthalene	41	J	42	4.6	ug/Kg	☆	02/20/13 15:19	02/22/13 14:24	1
2-Methylnaphthalene	51	J	42	7.4	ug/Kg	☆	02/20/13 15:19	02/22/13 14:24	1
Naphthalene	51	J	42	4.6	ug/Kg	☆	02/20/13 15:19	02/22/13 14:24	1
Phenanthrene	82	J	8.4	4.1	ug/Kg	☆	02/20/13 15:19	02/22/13 14:24	1
Pyrene	98	J	21	3.9	ug/Kg	☆	02/20/13 15:19	02/22/13 14:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	74		30 - 130	02/20/13 15:19	02/22/13 14:24	1

TestAmerica Savannah

# Client Sample Results

Client: Oneida Total Integrated Enterprises LLC  
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-87496-3  
SDG: 68087496-3

Client Sample ID: FM0160G-CS

Lab Sample ID: 680-87496-57

Date Collected: 02/13/13 15:52

Matrix: Solid

Date Received: 02/15/13 09:42

Percent Solids: 93.3

## Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	110	U	110	22	ug/Kg	☆	02/20/13 15:19	02/22/13 14:39	1
Acenaphthylene	5.4	J	43	5.4	ug/Kg	☆	02/20/13 15:19	02/22/13 14:39	1
Anthracene	7.8	J	9.0	4.5	ug/Kg	☆	02/20/13 15:19	02/22/13 14:39	1
Benzo[a]anthracene	41		8.6	4.2	ug/Kg	☆	02/20/13 15:19	02/22/13 14:39	1
Benzo[a]pyrene	26		11	5.6	ug/Kg	☆	02/20/13 15:19	02/22/13 14:39	1
Benzo[b]fluoranthene	39		13	6.6	ug/Kg	☆	02/20/13 15:19	02/22/13 14:39	1
Benzo[g,h,i]perylene	34		22	4.7	ug/Kg	☆	02/20/13 15:19	02/22/13 14:39	1
Benzo[k]fluoranthene	21		8.6	3.9	ug/Kg	☆	02/20/13 15:19	02/22/13 14:39	1
Chrysene	48		9.7	4.8	ug/Kg	☆	02/20/13 15:19	02/22/13 14:39	1
Dibenz(a,h)anthracene	14	J	22	4.4	ug/Kg	☆	02/20/13 15:19	02/22/13 14:39	1
Fluoranthene	39		22	4.3	ug/Kg	☆	02/20/13 15:19	02/22/13 14:39	1
Fluorene	22	U	22	4.4	ug/Kg	☆	02/20/13 15:19	02/22/13 14:39	1
Indeno[1,2,3-cd]pyrene	31		22	7.6	ug/Kg	☆	02/20/13 15:19	02/22/13 14:39	1
1-Methylnaphthalene	31	J	43	4.7	ug/Kg	☆	02/20/13 15:19	02/22/13 14:39	1
2-Methylnaphthalene	44	J	43	7.6	ug/Kg	☆	02/20/13 15:19	02/22/13 14:39	1
Naphthalene	37	J	43	4.7	ug/Kg	☆	02/20/13 15:19	02/22/13 14:39	1
Phenanthrene	45		8.6	4.2	ug/Kg	☆	02/20/13 15:19	02/22/13 14:39	1
Pyrene	53		22	4.0	ug/Kg	☆	02/20/13 15:19	02/22/13 14:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	69		30 - 130	02/20/13 15:19	02/22/13 14:39	1

Client Sample ID: FM0160H-CS

Lab Sample ID: 680-87496-58

Date Collected: 02/13/13 15:55

Matrix: Solid

Date Received: 02/15/13 09:42

Percent Solids: 94.0

## Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	110	U	110	21	ug/Kg	☆	02/20/13 15:19	02/22/13 14:54	1
Acenaphthylene	17	J	43	5.3	ug/Kg	☆	02/20/13 15:19	02/22/13 14:54	1
Anthracene	24		9.0	4.5	ug/Kg	☆	02/20/13 15:19	02/22/13 14:54	1
Benzo[a]anthracene	110		8.6	4.2	ug/Kg	☆	02/20/13 15:19	02/22/13 14:54	1
Benzo[a]pyrene	80		11	5.6	ug/Kg	☆	02/20/13 15:19	02/22/13 14:54	1
Benzo[b]fluoranthene	140		13	6.5	ug/Kg	☆	02/20/13 15:19	02/22/13 14:54	1
Benzo[g,h,i]perylene	79		21	4.7	ug/Kg	☆	02/20/13 15:19	02/22/13 14:54	1
Benzo[k]fluoranthene	21		8.6	3.8	ug/Kg	☆	02/20/13 15:19	02/22/13 14:54	1
Chrysene	120		9.6	4.8	ug/Kg	☆	02/20/13 15:19	02/22/13 14:54	1
Dibenz(a,h)anthracene	27		21	4.4	ug/Kg	☆	02/20/13 15:19	02/22/13 14:54	1
Fluoranthene	130		21	4.3	ug/Kg	☆	02/20/13 15:19	02/22/13 14:54	1
Fluorene	8.7	J	21	4.4	ug/Kg	☆	02/20/13 15:19	02/22/13 14:54	1
Indeno[1,2,3-cd]pyrene	56		21	7.6	ug/Kg	☆	02/20/13 15:19	02/22/13 14:54	1
1-Methylnaphthalene	49		43	4.7	ug/Kg	☆	02/20/13 15:19	02/22/13 14:54	1
2-Methylnaphthalene	72	J	43	7.6	ug/Kg	☆	02/20/13 15:19	02/22/13 14:54	1
Naphthalene	61		43	4.7	ug/Kg	☆	02/20/13 15:19	02/22/13 14:54	1
Phenanthrene	110		8.6	4.2	ug/Kg	☆	02/20/13 15:19	02/22/13 14:54	1
Pyrene	110		21	4.0	ug/Kg	☆	02/20/13 15:19	02/22/13 14:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	77		30 - 130	02/20/13 15:19	02/22/13 14:54	1

TestAmerica Savannah

# Client Sample Results

Client: Oneida Total Integrated Enterprises LLC  
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-87496-3  
SDG: 68087496-3

Client Sample ID: FM0160I-CS

Lab Sample ID: 680-87496-59

Date Collected: 02/13/13 16:02

Matrix: Solid

Date Received: 02/15/13 09:42

Percent Solids: 94.6

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	100	U	100	21	ug/Kg	✱	02/20/13 15:19	02/22/13 15:09	1
Acenaphthylene	9.1	J	42	5.2	ug/Kg	✱	02/20/13 15:19	02/22/13 15:09	1
Anthracene	12		8.8	4.4	ug/Kg	✱	02/20/13 15:19	02/22/13 15:09	1
Benzo[a]anthracene	69		8.3	4.1	ug/Kg	✱	02/20/13 15:19	02/22/13 15:09	1
Benzo[a]pyrene	47		11	5.4	ug/Kg	✱	02/20/13 15:19	02/22/13 15:09	1
Benzo[b]fluoranthene	64		13	6.4	ug/Kg	✱	02/20/13 15:19	02/22/13 15:09	1
Benzo[g,h,i]perylene	47		21	4.6	ug/Kg	✱	02/20/13 15:19	02/22/13 15:09	1
Benzo[k]fluoranthene	41		8.3	3.8	ug/Kg	✱	02/20/13 15:19	02/22/13 15:09	1
Chrysene	84		9.4	4.7	ug/Kg	✱	02/20/13 15:19	02/22/13 15:09	1
Dibenz(a,h)anthracene	17	J	21	4.3	ug/Kg	✱	02/20/13 15:19	02/22/13 15:09	1
Fluoranthene	72		21	4.2	ug/Kg	✱	02/20/13 15:19	02/22/13 15:09	1
Fluorene	6.3	J	21	4.3	ug/Kg	✱	02/20/13 15:19	02/22/13 15:09	1
Indeno[1,2,3-cd]pyrene	45		21	7.4	ug/Kg	✱	02/20/13 15:19	02/22/13 15:09	1
1-Methylnaphthalene	49		42	4.6	ug/Kg	✱	02/20/13 15:19	02/22/13 15:09	1
2-Methylnaphthalene	59	J	42	7.4	ug/Kg	✱	02/20/13 15:19	02/22/13 15:09	1
Naphthalene	53		42	4.6	ug/Kg	✱	02/20/13 15:19	02/22/13 15:09	1
Phenanthrene	68		8.3	4.1	ug/Kg	✱	02/20/13 15:19	02/22/13 15:09	1
Pyrene	79		21	3.9	ug/Kg	✱	02/20/13 15:19	02/22/13 15:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	64		30 - 130				02/20/13 15:19	02/22/13 15:09	1

Client Sample ID: FM0160J-CS

Lab Sample ID: 680-87496-60

Date Collected: 02/13/13 16:03

Matrix: Solid

Date Received: 02/15/13 09:42

Percent Solids: 89.8

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	110	U	110	22	ug/Kg	✱	02/20/13 15:19	02/22/13 15:24	1
Acenaphthylene	7.0	J	43	5.4	ug/Kg	✱	02/20/13 15:19	02/22/13 15:24	1
Anthracene	11		9.1	4.6	ug/Kg	✱	02/20/13 15:19	02/22/13 15:24	1
Benzo[a]anthracene	53		8.7	4.2	ug/Kg	✱	02/20/13 15:19	02/22/13 15:24	1
Benzo[a]pyrene	36		11	5.6	ug/Kg	✱	02/20/13 15:19	02/22/13 15:24	1
Benzo[b]fluoranthene	52		13	6.6	ug/Kg	✱	02/20/13 15:19	02/22/13 15:24	1
Benzo[g,h,i]perylene	38		22	4.8	ug/Kg	✱	02/20/13 15:19	02/22/13 15:24	1
Benzo[k]fluoranthene	20		8.7	3.9	ug/Kg	✱	02/20/13 15:19	02/22/13 15:24	1
Chrysene	60		9.8	4.9	ug/Kg	✱	02/20/13 15:19	02/22/13 15:24	1
Dibenz(a,h)anthracene	11	J	22	4.4	ug/Kg	✱	02/20/13 15:19	02/22/13 15:24	1
Fluoranthene	53		22	4.3	ug/Kg	✱	02/20/13 15:19	02/22/13 15:24	1
Fluorene	4.9	J	22	4.4	ug/Kg	✱	02/20/13 15:19	02/22/13 15:24	1
Indeno[1,2,3-cd]pyrene	31		22	7.7	ug/Kg	✱	02/20/13 15:19	02/22/13 15:24	1
1-Methylnaphthalene	100		43	4.8	ug/Kg	✱	02/20/13 15:19	02/22/13 15:24	1
2-Methylnaphthalene	120	J	43	7.7	ug/Kg	✱	02/20/13 15:19	02/22/13 15:24	1
Naphthalene	76		43	4.8	ug/Kg	✱	02/20/13 15:19	02/22/13 15:24	1
Phenanthrene	74		8.7	4.2	ug/Kg	✱	02/20/13 15:19	02/22/13 15:24	1
Pyrene	67		22	4.0	ug/Kg	✱	02/20/13 15:19	02/22/13 15:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	69		30 - 130				02/20/13 15:19	02/22/13 15:24	1

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